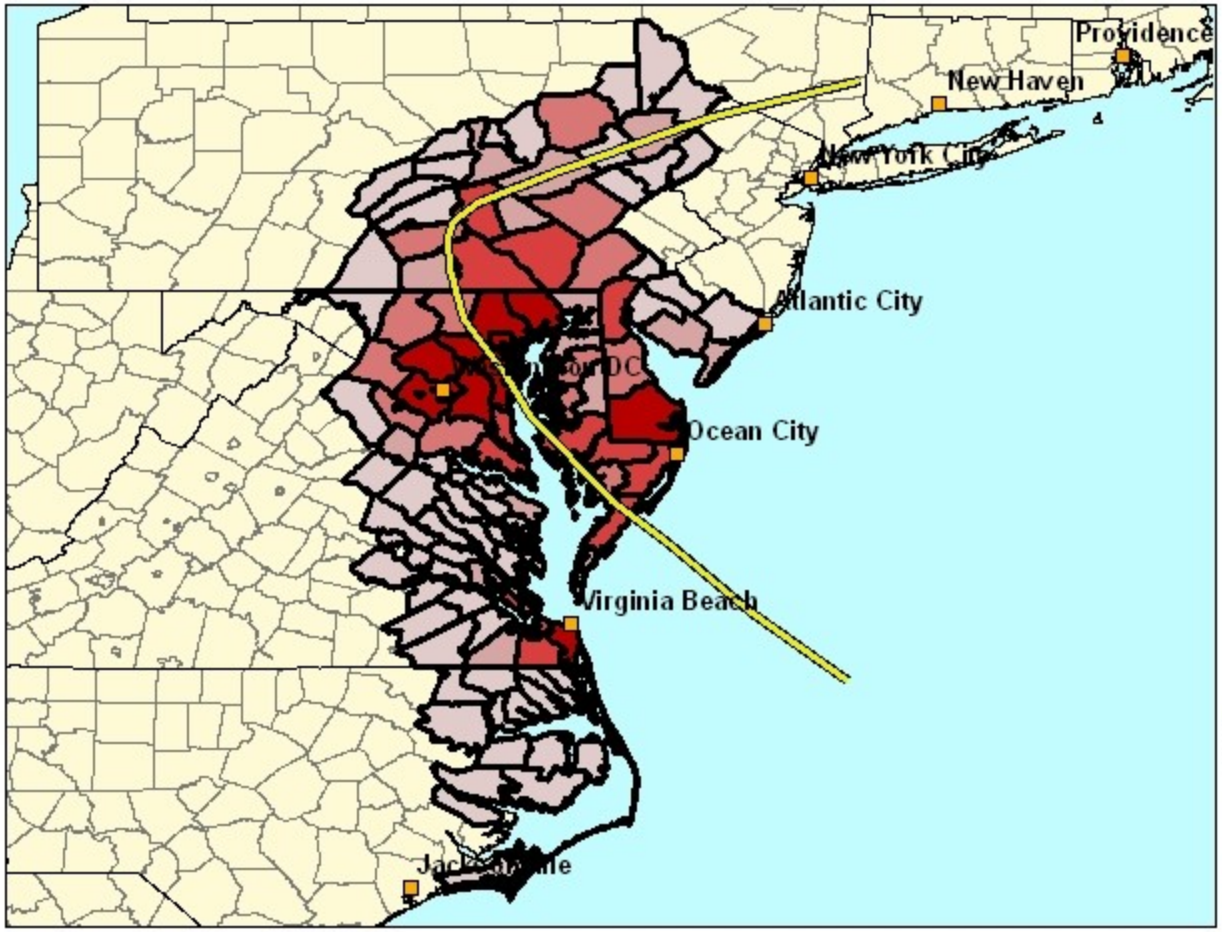
US Army Corps of Engineers

# Hurricane Md#2 Debris Model

## Landfall Plus About 12 Hours

**For Official Use Only!**




### *Post Landfall Debris Model Results*

MD - 33,477,000 Yards
VA - 12,371,000 Yards
PA - 5,305,000 Yards
DE - 2,535,000 Yards
DC - 1,454,000 Yards
NJ - 502,000 Yards
NC - 410,000 Yards

*Model results per County on following page*

This model is based on a Category 3 storm making landfall near Chincoteague, VA.

Historic Track

**Debris**

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (1000 EDT 09/17/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane Md#2 Debris Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1030 EDT 09/17/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 1 of 19 |

US Army Corps of Engineers

# Hurricane Md#2 Debris Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| Delaware | | Kent | 408,000 |
| | | New Castle | 931,000 |
| | | Sussex | 1,196,000 |
| Delaware | 2,535,000 | | |
| | | | |
| District of Columbia | | Washington | 1,454,000 |
| District of Columbia | 1,454,000 | | |
| | | | |
| Maryland | | Anne Arundel | 4,619,000 |
| | | Baltimore | 7,286,000 |
| | | Baltimore City | 6,080,000 |
| | | Calvert | 701,000 |
| | | Caroline | 226,000 |
| | | Carroll | 499,000 |
| | | Cecil | 226,000 |
| | | Charles | 393,000 |
| | | Dorchester | 542,000 |
| | | Frederick | 271,000 |
| | | Harford | 1,611,000 |
| | | Howard | 2,019,000 |
| | | Kent | 136,000 |
| | | Montgomery | 2,434,000 |
| | | Prince Georges | 3,403,000 |
| | | Queen Annes | 324,000 |
| | | Somerset | 360,000 |
| | | St Marys | 676,000 |
| | | Talbot | 341,000 |
| | | Washington | 13,000 |
| | | Wicomico | 762,000 |
| | | Worcester | 555,000 |
| Maryland | 33,477,000 | | |

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| New Jersey | | Atlantic | 3,000 |
| | | Cape May | 190,000 |
| | | Cumberland | 190,000 |
| | | Gloucester | 20,000 |
| | | Salem | 97,000 |
| | | Warren | 2,000 |
| New Jersey | 502,000 | | |
| | | | |
| North Carolina | | Beaufort | < 1,000 |
| | | Bertie | 9,000 |
| | | Camden | 27,000 |
| | | Carteret | < 1,000 |
| | | Chowan | 18,000 |
| | | Currituck | 75,000 |
| | | Dare | 93,000 |
| | | Gates | 19,000 |
| | | Hertford | 12,000 |
| | | Hyde | 15,000 |
| | | Pasquotank | 94,000 |
| | | Perquimans | 23,000 |
| | | Tyrrell | 13,000 |
| | | Washington | 12,000 |
| North Carolina | 410,000 | | |
| | | | |
| Pennsylvania | | Adams | 192,000 |
| | | Berks | 389,000 |
| | | Carbon | 66,000 |
| | | Chester | 348,000 |
| | | Columbia | 69,000 |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

**Hurricane Md#2 Debris Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Debris Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| Pennsylvania | | Cumberland | 420,000 |
| (continued) | | Dauphin | 539,000 |
| | | Delaware | 80,000 |
| | | Franklin | 49,000 |
| | | Juniata | 18,000 |
| | | Lackawanna | 29,000 |
| | | Lancaster | 844,000 |
| | | Lebanon | 228,000 |
| | | Lehigh | 48,000 |
| | | Luzerne | 361,000 |
| | | Mifflin | < 1,000 |
| | | Monroe | 162,000 |
| | | Montour | 17,000 |
| | | Northampton | 49,000 |
| | | Northumberland | 128,000 |
| | | Perry | 80,000 |
| | | Pike | 2,000 |
| | | Schuylkill | 201,000 |
| | | Snyder | 34,000 |
| | | Union | 19,000 |
| | | Wayne | 6,000 |
| | | York | 927,000 |
| Pennsylvania | 5,305,000 | | |
| | | | |
| Virginia | | Accomack | 701,000 |
| | | Alexandria | 494,000 |
| | | Arlington | 678,000 |
| | | Caroline | 29,000 |
| | | Charles City | 11,000 |
| | | Chesapeake | 539,000 |
| | | Chesterfield | 3,000 |

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| Virginia | | Essex | 32,000 |
| (continued) | | Fairfax | 1,807,000 |
| | | Fairfax City | 32,000 |
| | | Falls Church | 36,000 |
| | | Fauquier | < 1,000 |
| | | Franklin City | 12,000 |
| | | Fredericksburg | 27,000 |
| | | Gloucester | 98,000 |
| | | Hampton City | 389,000 |
| | | Hanover | 57,000 |
| | | Henrico | 66,000 |
| | | Hopewell City | 21,000 |
| | | Isle Of Wight | 67,000 |
| | | James City | 158,000 |
| | | King And Queen | 21,000 |
| | | King George | 39,000 |
| | | King William | 27,000 |
| | | Lancaster | 90,000 |
| | | Loudoun | 258,000 |
| | | Manassas City | 45,000 |
| | | Manassas Park | 14,000 |
| | | Mathews | 78,000 |
| | | Middlesex | 55,000 |
| | | New Kent | 26,000 |
| | | Newport News | 506,000 |
| | | Norfolk City | 821,000 |
| | | Northampton | 111,000 |
| | | Northumberland | 122,000 |
| | | Poquoson City | 29,000 |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

**Hurricane Md#2 Debris Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Debris Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| Virginia | | Portsmouth | 285,000 |
| (continued) | | Prince George | 17,000 |
| | | Prince William | 388,000 |
| | | Richmond | 23,000 |
| | | Southampton | 17,000 |
| | | Spotsylvania | 23,000 |
| | | Stafford | 112,000 |
| | | Suffolk City | 164,000 |
| | | Surry | 16,000 |
| | | Sussex | 11,000 |
| | | Virginia Beach | 3,586,000 |
| | | Westmoreland | 57,000 |
| | | Williamsburg | 27,000 |
| | | York | 146,000 |
| Virginia | 12,371,000 | | |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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**Hurricane Md#2 Debris Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

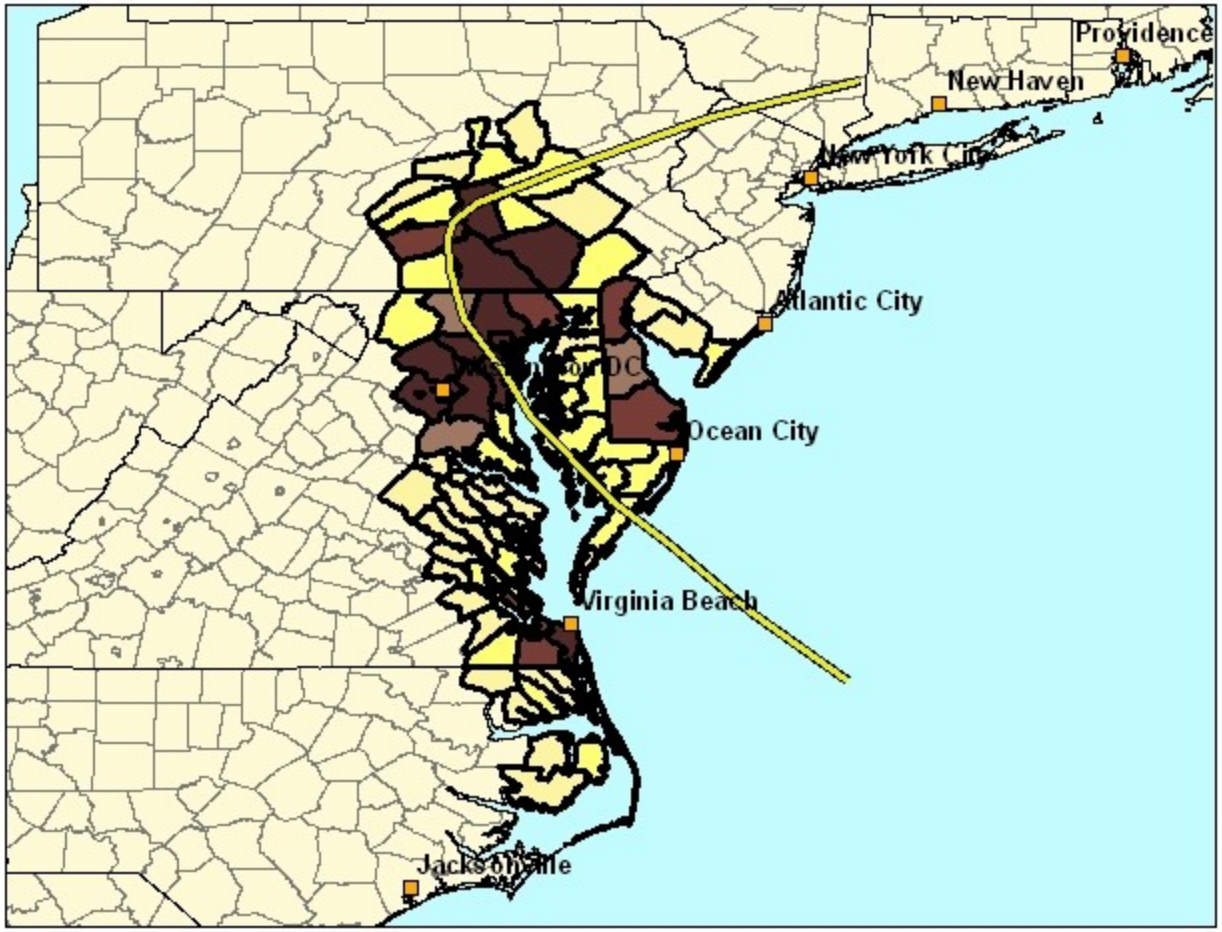
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Population Model

## Landfall Plus About 12 Hours

**For Official Use Only!**




### *Post Landfall Population Model Results*

Maryland - 5,110,000
Virginia - 2,452,000
Pennsylvania - 1,555,000
District of Columbia - 586,000
Delaware - 571,000
North Carolina - 114,000
New Jersey - 74,000

*Model results per County on following page*

This model is based on a Category 3 storm making landfall near Chincoteague, VA.

Historic Track

**Population**

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (1000 EDT 09/17/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane Md#2 Population Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1030 EDT 09/17/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 5 of 19 |

US Army Corps of Engineers

# Hurricane Md#2 Population Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Population per State | County | Population per County |
|---|---|---|---|
| Delaware | | Kent | 148,000 |
| | | New Castle | 242,000 |
| | | Sussex | 181,000 |
| Delaware | 571,000 | | |
| | | | |
| District of Columbia | | Washington | 586,000 |
| District of Columbia | 586,000 | | |
| | | | |
| Maryland | | Anne Arundel | 511,000 |
| | | Baltimore | 788,000 |
| | | Baltimore City | 636,000 |
| | | Calvert | 89,000 |
| | | Caroline | 33,000 |
| | | Carroll | 170,000 |
| | | Cecil | 100,000 |
| | | Charles | 136,000 |
| | | Dorchester | 32,000 |
| | | Frederick | 28,000 |
| | | Harford | 242,000 |
| | | Howard | 273,000 |
| | | Kent | 20,000 |
| | | Montgomery | 860,000 |
| | | Prince Georges | 841,000 |
| | | Queen Annes | 47,000 |
| | | Somerset | 26,000 |
| | | St Marys | 99,000 |
| | | Talbot | 37,000 |
| | | Wicomico | 93,000 |
| | | Worcester | 49,000 |
| Maryland | 5,110,000 | | |
| | | | |

| State | Population per State | County | Population per County |
|---|---|---|---|
| New Jersey | | Cape May | 49,000 |
| | | Cumberland | 12,000 |
| | | Salem | 13,000 |
| New Jersey | 74,000 | | |
| | | | |
| North Carolina | | Camden | 10,000 |
| | | Currituck | 24,000 |
| | | Dare | 34,000 |
| | | Gates | < 1,000 |
| | | Hyde | < 1,000 |
| | | Pasquotank | 40,000 |
| | | Perquimans | 4,000 |
| | | Tyrrell | 2,000 |
| North Carolina | 114,000 | | |
| | | | |
| Pennsylvania | | Adams | 81,000 |
| | | Berks | 2,000 |
| | | Chester | 39,000 |
| | | Columbia | < 1,000 |
| | | Cumberland | 186,000 |
| | | Dauphin | 254,000 |
| | | Juniata | < 1,000 |
| | | Lancaster | 384,000 |
| | | Lebanon | 98,000 |
| | | Northumberland | 36,000 |
| | | Perry | 29,000 |
| | | Schuylkill | 28,000 |
| | | Snyder | < 1,000 |
| | | York | 418,000 |

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

**Hurricane Md#2 Population Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Population Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Population per State | County | Population per County |
|---|---|---|---|
| Pennsylvania | 1,555,000 | | |
| (continued) | | | |
| Virginia | | Accomack | 40,000 |
| | | Alexandria | 138,000 |
| | | Arlington | 201,000 |
| | | Caroline | < 1,000 |
| | | Charles City | < 1,000 |
| | | Chesapeake | 221,000 |
| | | Essex | 11,000 |
| | | Fairfax | 351,000 |
| | | Falls Church | 11,000 |
| | | Gloucester | 39,000 |
| | | Hampton City | 146,000 |
| | | Isle Of Wight | 24,000 |
| | | James City | 60,000 |
| | | King And Queen | 6,000 |
| | | King George | 10,000 |
| | | King William | 5,000 |
| | | Lancaster | 12,000 |
| | | Mathews | 10,000 |
| | | Middlesex | 11,000 |
| | | New Kent | 4,000 |
| | | Newport News | 179,000 |
| | | Norfolk City | 229,000 |
| | | Northampton | 14,000 |
| | | Northumberland | 13,000 |
| | | Poquoson City | 12,000 |
| | | Portsmouth | 102,000 |
| | | Richmond | 10,000 |
| | | Suffolk City | 63,000 |
| | | Surry | 2,000 |

| State | Population per State | County | Population per County |
|---|---|---|---|
| Virginia | | Virginia Beach | 436,000 |
| (continued) | | Westmoreland | 18,000 |
| | | Williamsburg | 12,000 |
| | | York | 62,000 |
| Virginia | 2,452,000 | | |

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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**Hurricane Md#2 Population Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

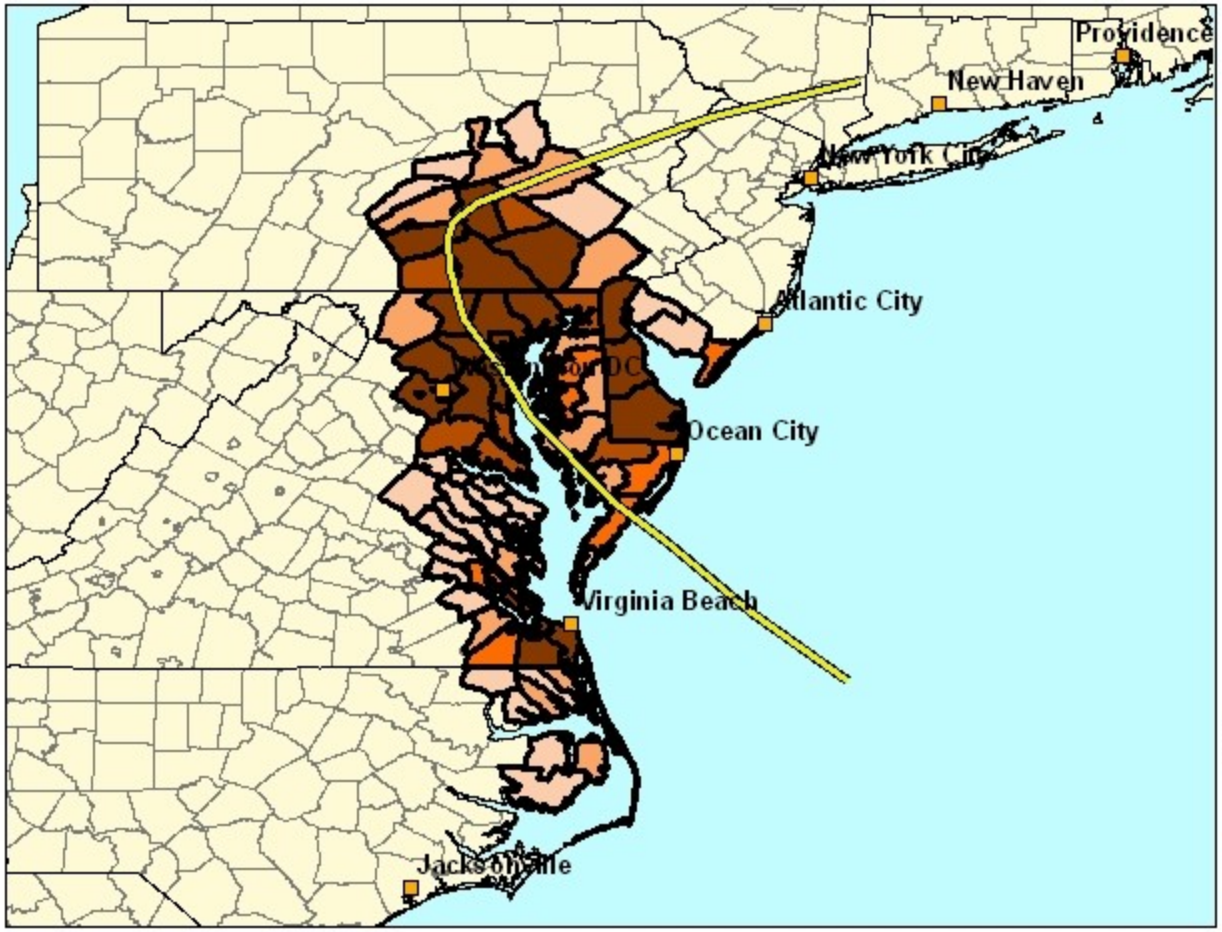
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Households Model

## Landfall Plus About 12 Hours

**For Official Use Only!**




### *Post Landfall Households Model Results*

Maryland - 1,917,000
Virginia - 955,000
Pennsylvania - 602,000
District of Columbia - 255,000
Delaware - 217,000
North Carolina - 46,000
New Jersey - 30,000

*Model results per County on following page*

This model is based on a Category 3 storm making landfall near Chincoteague, VA.

Historic Track

**Households**

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (1000 EDT 09/17/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

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| Hurricane Md#2 Households Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1030 EDT 09/17/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 8 of 19 |

US Army Corps of Engineers

# Hurricane Md#2 Households Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Households per State | County | Households per County |
|---|---|---|---|
| Delaware | | Kent | 56,000 |
| | | New Castle | 88,000 |
| | | Sussex | 73,000 |
| Delaware | 217,000 | | |
| | | | |
| District of Columbia | | Washington | 255,000 |
| District of Columbia | 255,000 | | |
| | | | |
| Maryland | | Anne Arundel | 187,000 |
| | | Baltimore | 314,000 |
| | | Baltimore City | 252,000 |
| | | Calvert | 31,000 |
| | | Caroline | 13,000 |
| | | Carroll | 60,000 |
| | | Cecil | 37,000 |
| | | Charles | 47,000 |
| | | Dorchester | 14,000 |
| | | Frederick | 9,000 |
| | | Harford | 88,000 |
| | | Howard | 99,000 |
| | | Kent | 8,000 |
| | | Montgomery | 321,000 |
| | | Prince Georges | 301,000 |
| | | Queen Annes | 18,000 |
| | | Somerset | 9,000 |
| | | St Marys | 36,000 |
| | | Talbot | 16,000 |
| | | Wicomico | 36,000 |
| | | Worcester | 21,000 |
| Maryland | 1,917,000 | | |
| | | | |

| State | Households per State | County | Households per County |
|---|---|---|---|
| New Jersey | | Cape May | 21,000 |
| | | Cumberland | 4,000 |
| | | Salem | 5,000 |
| New Jersey | 30,000 | | |
| | | | |
| North Carolina | | Camden | 4,000 |
| | | Currituck | 10,000 |
| | | Dare | 15,000 |
| | | Gates | < 1,000 |
| | | Hyde | < 1,000 |
| | | Pasquotank | 15,000 |
| | | Perquimans | 2,000 |
| | | Tyrrell | < 1,000 |
| North Carolina | 46,000 | | |
| | | | |
| Pennsylvania | | Adams | 30,000 |
| | | Berks | < 1,000 |
| | | Chester | 13,000 |
| | | Columbia | < 1,000 |
| | | Cumberland | 74,000 |
| | | Dauphin | 104,000 |
| | | Juniata | < 1,000 |
| | | Lancaster | 143,000 |
| | | Lebanon | 39,000 |
| | | Northumberland | 15,000 |
| | | Perry | 11,000 |
| | | Schuylkill | 11,000 |
| | | Snyder | < 1,000 |
| | | York | 162,000 |

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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**Hurricane Md#2 Households Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Households Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Households per State | County | Households per County |
|---|---|---|---|
| Pennsylvania | 602,000 | | |
| (continued) | | | |
| Virginia | | Accomack | 16,000 |
| | | Alexandria | 67,000 |
| | | Arlington | 92,000 |
| | | Caroline | < 1,000 |
| | | Charles City | < 1,000 |
| | | Chesapeake | 78,000 |
| | | Essex | 5,000 |
| | | Fairfax | 135,000 |
| | | Falls Church | 5,000 |
| | | Gloucester | 15,000 |
| | | Hampton City | 54,000 |
| | | Isle Of Wight | 9,000 |
| | | James City | 24,000 |
| | | King And Queen | 3,000 |
| | | King George | 4,000 |
| | | King William | 2,000 |
| | | Lancaster | 5,000 |
| | | Mathews | 4,000 |
| | | Middlesex | 5,000 |
| | | New Kent | 2,000 |
| | | Newport News | 69,000 |
| | | Norfolk City | 85,000 |
| | | Northampton | 6,000 |
| | | Northumberland | 6,000 |
| | | Poquoson City | 5,000 |
| | | Portsmouth | 39,000 |
| | | Richmond | 4,000 |
| | | Suffolk City | 23,000 |
| | | Surry | < 1,000 |

| State | Households per State | County | Households per County |
|---|---|---|---|
| Virginia | | Virginia Beach | 159,000 |
| (continued) | | Westmoreland | 8,000 |
| | | Williamsburg | 4,000 |
| | | York | 22,000 |
| Virginia | 955,000 | | |

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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**Hurricane Md#2 Households Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

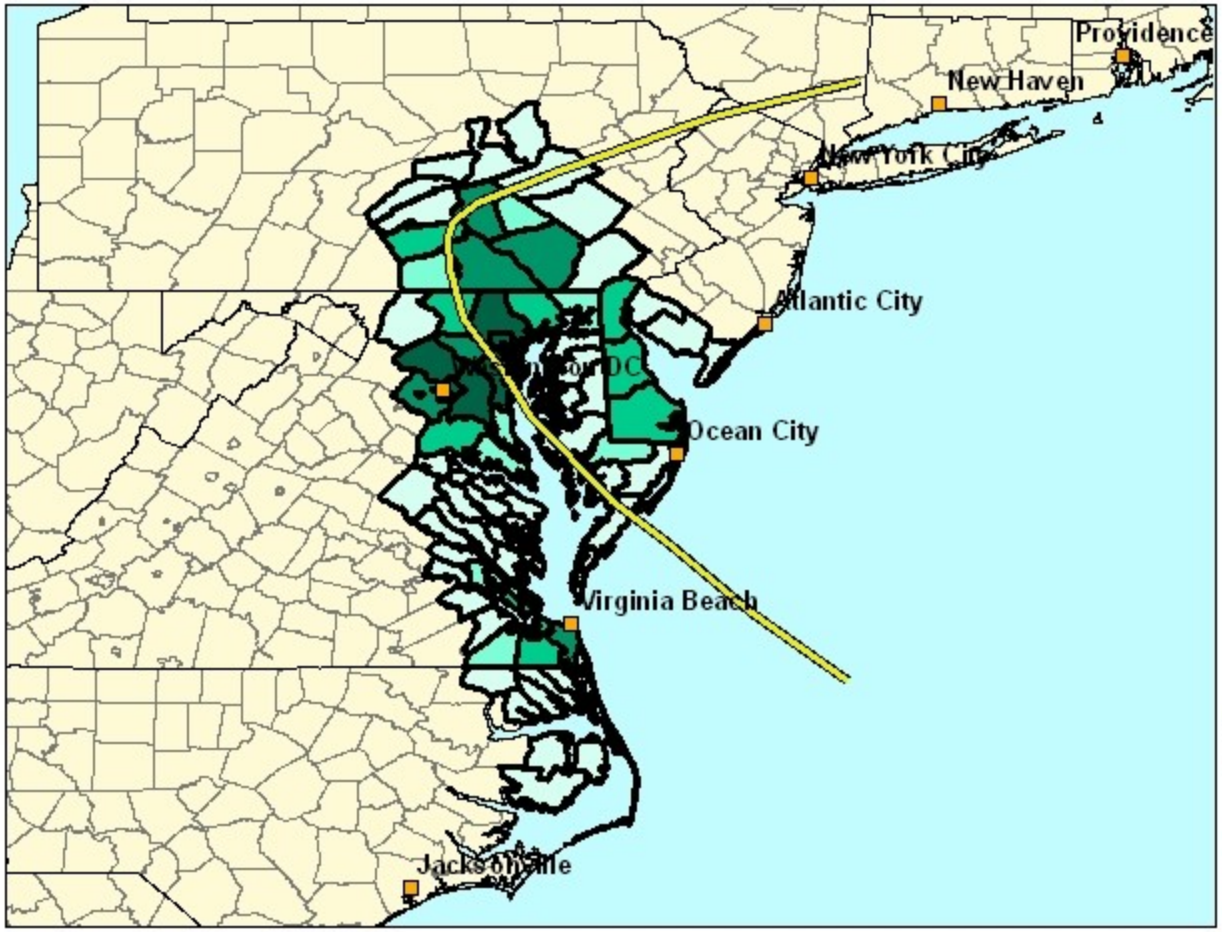
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Commodities Model

## Landfall Plus About 12 Hours

**For Official Use Only!**




### *Post Landfall Ice/Water Model Results*

**Day One / Day Two / Day Three**

MD – 105/209/417 Truckloads
VA – 54/107/213 Truckloads
PA – 34/67/133 Truckloads
DC – 12/24/47 Truckloads
DE – 12/24/47 Truckloads
NC – 4/7/14 Truckloads
NJ – 2/3/6 Truckloads

*Model results per County on following page*

This model is based on a Category 3 storm making landfall near Chincoteague, VA.

Historic Track

**Commodities**

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC ***(1000 EDT 09/17/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane Md#2 Commodities Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1030 EDT 09/17/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 11 of 19 |

US Army Corps of Engineers

# Hurricane Md#2 Commodities Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| Delaware | | Kent | 12 |
| | | New Castle | 20 |
| | | Sussex | 15 |
| Delaware | 47 | | |
| | | | |
| District of Columbia | | Washington | 47 |
| District of Columbia | 47 | | |
| | | | |
| Maryland | | Anne Arundel | 41 |
| | | Baltimore | 64 |
| | | Baltimore City | 51 |
| | | Calvert | 8 |
| | | Caroline | 3 |
| | | Carroll | 14 |
| | | Cecil | 8 |
| | | Charles | 11 |
| | | Dorchester | 3 |
| | | Frederick | 3 |
| | | Harford | 20 |
| | | Howard | 22 |
| | | Kent | 2 |
| | | Montgomery | 69 |
| | | Prince Georges | 68 |
| | | Queen Annes | 4 |
| | | Somerset | 3 |
| | | St Marys | 8 |
| | | Talbot | 3 |
| | | Wicomico | 8 |
| | | Worcester | 4 |
| Maryland | 417 | | |
| | | | |

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| New Jersey | | Cape May | 4 |
| | | Cumberland | 1 |
| | | Salem | 1 |
| New Jersey | 6 | | |
| | | | |
| North Carolina | | Camden | 1 |
| | | Currituck | 2 |
| | | Dare | 3 |
| | | Gates | 1 |
| | | Hyde | 1 |
| | | Pasquotank | 4 |
| | | Perquimans | 1 |
| | | Tyrrell | 1 |
| North Carolina | 14 | | |
| | | | |
| Pennsylvania | | Adams | 7 |
| | | Berks | 1 |
| | | Chester | 4 |
| | | Columbia | 1 |
| | | Cumberland | 15 |
| | | Dauphin | 21 |
| | | Juniata | 1 |
| | | Lancaster | 31 |
| | | Lebanon | 8 |
| | | Northumberland | 3 |
| | | Perry | 3 |
| | | Schuylkill | 3 |
| | | Snyder | 1 |
| | | York | 34 |

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

**Hurricane Md#2 Commodities Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Commodities Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| Pennsylvania | 133 | | |
| (continued) | | | |
| Virginia | | Accomack | 4 |
| | | Alexandria | 12 |
| | | Arlington | 17 |
| | | Caroline | 1 |
| | | Charles City | 1 |
| | | Chesapeake | 18 |
| | | Essex | 1 |
| | | Fairfax | 29 |
| | | Falls Church | 1 |
| | | Gloucester | 4 |
| | | Hampton City | 12 |
| | | Isle Of Wight | 2 |
| | | James City | 5 |
| | | King And Queen | 1 |
| | | King George | 1 |
| | | King William | 1 |
| | | Lancaster | 1 |
| | | Mathews | 1 |
| | | Middlesex | 1 |
| | | New Kent | 1 |
| | | Newport News | 15 |
| | | Norfolk City | 19 |
| | | Northampton | 2 |
| | | Northumberland | 2 |
| | | Poquoson City | 1 |
| | | Portsmouth | 9 |
| | | Richmond | 1 |
| | | Suffolk City | 6 |
| | | Surry | 1 |

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| Virginia | | Virginia Beach | 35 |
| (continued) | | Westmoreland | 2 |
| | | Williamsburg | 1 |
| | | York | 5 |
| Virginia | 213 | | |

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

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**Hurricane Md#2 Commodities Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

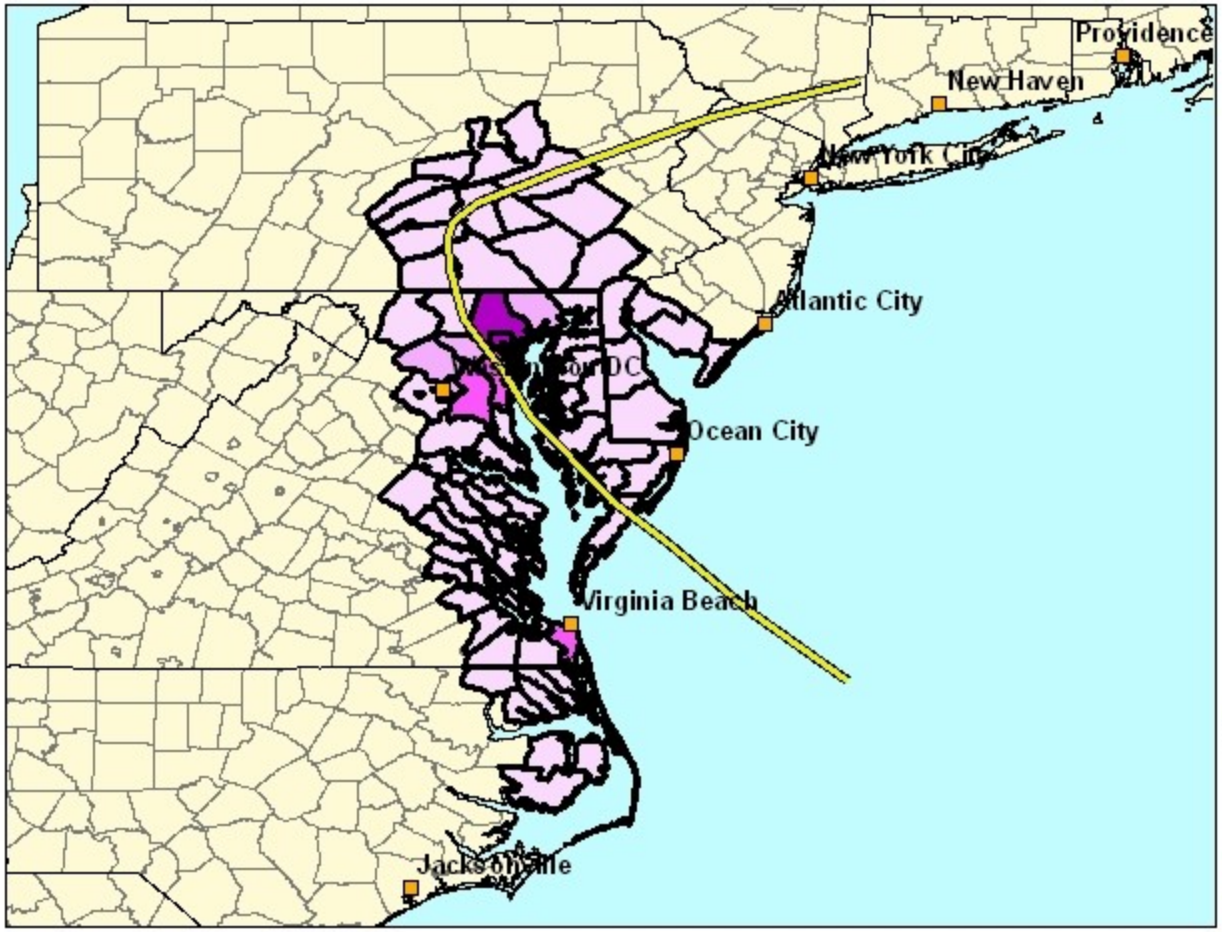
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Temporary Housing Model

## Landfall Plus About 12 Hours

**For Official Use Only!**




### *Post Landfall Temporary Housing Model Results*

Maryland - 43,700
Virginia - 14,100
Pennsylvania - 6,600
Delaware - 3,500
District of Columbia - 2,600
North Carolina - 600
New Jersey - 300

*Model results per County on following page*

This model is based on a Category 3 storm making landfall near Chincoteague, VA.

Historic Track

**Temporary Housing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (1000 EDT 09/17/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane Md#2 Housing Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1030 EDT 09/17/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 14 of 19 |

US Army Corps of Engineers

# Hurricane Md#2 Temporary Housing Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Delaware | | Kent | 800 |
| | | New Castle | 900 |
| | | Sussex | 1,800 |
| Delaware | 3,500 | | |
| | | | |
| District of Columbia | | Washington | 2,600 |
| District of Columbia | 2,600 | | |
| | | | |
| Maryland | | Anne Arundel | 5,600 |
| | | Baltimore | 9,400 |
| | | Baltimore City | 7,600 |
| | | Calvert | 1,000 |
| | | Caroline | 400 |
| | | Carroll | 800 |
| | | Cecil | 400 |
| | | Charles | 600 |
| | | Dorchester | 600 |
| | | Frederick | < 100 |
| | | Harford | 2,300 |
| | | Howard | 2,500 |
| | | Kent | 300 |
| | | Montgomery | 3,300 |
| | | Prince Georges | 4,500 |
| | | Queen Annes | 600 |
| | | Somerset | 500 |
| | | St Marys | 1,000 |
| | | Talbot | 500 |
| | | Wicomico | 1,100 |
| | | Worcester | 700 |
| Maryland | 43,700 | | |
| | | | |

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| New Jersey | | Cape May | 300 |
| | | Cumberland | < 100 |
| | | Salem | < 100 |
| New Jersey | 300 | | |
| | | | |
| North Carolina | | Camden | < 100 |
| | | Currituck | 200 |
| | | Dare | 200 |
| | | Gates | < 100 |
| | | Hyde | < 100 |
| | | Pasquotank | 200 |
| | | Perquimans | < 100 |
| | | Tyrrell | < 100 |
| North Carolina | 600 | | |
| | | | |
| Pennsylvania | | Adams | 300 |
| | | Berks | < 100 |
| | | Chester | 200 |
| | | Columbia | < 100 |
| | | Cumberland | 800 |
| | | Dauphin | 1,100 |
| | | Juniata | < 100 |
| | | Lancaster | 1,500 |
| | | Lebanon | 400 |
| | | Northumberland | 200 |
| | | Perry | 200 |
| | | Schuylkill | 200 |
| | | Snyder | < 100 |
| | | York | 1,700 |

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil
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**Hurricane Md#2 Housing Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Temporary Housing Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Pennsylvania | 6,600 | | |
| (continued) | | | |
| Virginia | | Accomack | 800 |
| | | Alexandria | 700 |
| | | Arlington | 1,000 |
| | | Caroline | < 100 |
| | | Charles City | < 100 |
| | | Chesapeake | 900 |
| | | Essex | < 100 |
| | | Fairfax | 1,400 |
| | | Falls Church | < 100 |
| | | Gloucester | 200 |
| | | Hampton City | 600 |
| | | Isle Of Wight | < 100 |
| | | James City | 300 |
| | | King And Queen | < 100 |
| | | King George | < 100 |
| | | King William | < 100 |
| | | Lancaster | 200 |
| | | Mathews | 200 |
| | | Middlesex | < 100 |
| | | New Kent | < 100 |
| | | Newport News | 700 |
| | | Norfolk City | 1,100 |
| | | Northampton | 200 |
| | | Northumberland | 200 |
| | | Poquoson City | < 100 |
| | | Portsmouth | 400 |
| | | Richmond | < 100 |
| | | Suffolk City | 300 |
| | | Surry | < 100 |

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Virginia | | Virginia Beach | 4,600 |
| (continued) | | Westmoreland | < 100 |
| | | Williamsburg | < 100 |
| | | York | 300 |
| Virginia | 14,100 | | |

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil
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**Hurricane Md#2 Housing Model**

**Generated By:**
Siemsen, LRL 1030 EDT 09/17/2007

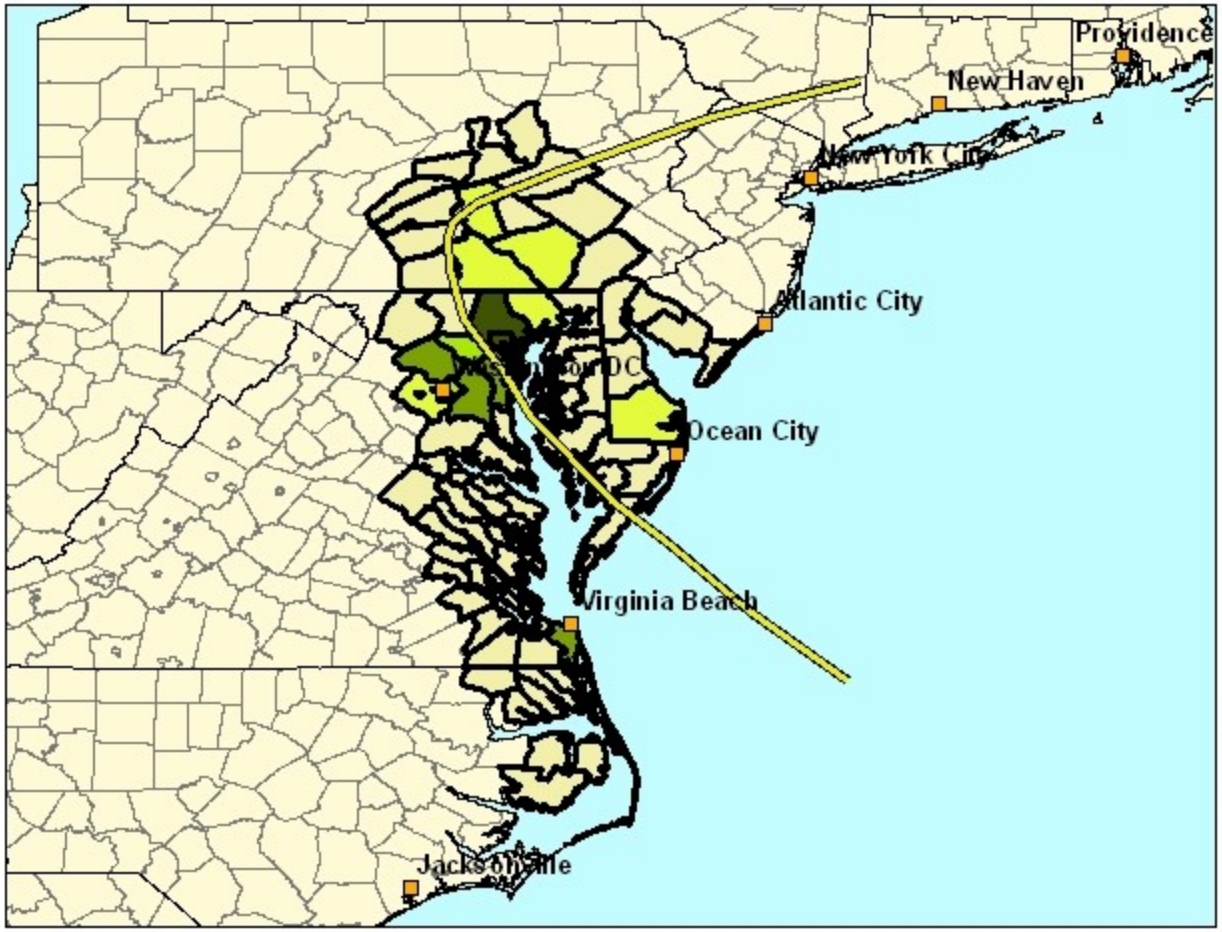
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Temporary Roofing Model

## Landfall Plus About 12 Hours

**For Official Use Only!**




### *Post Landfall Temporary Roofing Model Results*

Maryland - 74,700
Virginia - 25,500
Pennsylvania - 12,400
Delaware - 6,300
District of Columbia - 5,100
North Carolina - 900
New Jersey - 500

*Model results per County on following page*

This model is based on a Category 3 storm making landfall near Chincoteague, VA.

Historic Track

**Temporary Roofing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (1000 EDT 09/17/2007) forecast. Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 8% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane Md#2 Roofing Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1030 EDT 09/17/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 17 of 19 |

US Army Corps of Engineers

# Hurricane Md#2 Temporary Roofing Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Delaware | | Kent | 1,400 |
| | | New Castle | 1,800 |
| | | Sussex | 3,100 |
| Delaware | 6,300 | | |
| | | | |
| District of Columbia | | Washington | 5,100 |
| District of Columbia | 5,100 | | |
| | | | |
| Maryland | | Anne Arundel | 9,400 |
| | | Baltimore | 15,700 |
| | | Baltimore City | 12,600 |
| | | Calvert | 1,600 |
| | | Caroline | 700 |
| | | Carroll | 1,500 |
| | | Cecil | 800 |
| | | Charles | 1,000 |
| | | Dorchester | 1,000 |
| | | Frederick | 200 |
| | | Harford | 3,800 |
| | | Howard | 4,300 |
| | | Kent | 400 |
| | | Montgomery | 6,500 |
| | | Prince Georges | 8,200 |
| | | Queen Annes | 900 |
| | | Somerset | 700 |
| | | St Marys | 1,600 |
| | | Talbot | 800 |
| | | Wicomico | 1,800 |
| | | Worcester | 1,200 |
| Maryland | 74,700 | | |
| | | | |

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| New Jersey | | Cape May | 500 |
| | | Cumberland | < 100 |
| | | Salem | < 100 |
| New Jersey | 500 | | |
| | | | |
| North Carolina | | Camden | < 100 |
| | | Currituck | 300 |
| | | Dare | 300 |
| | | Gates | < 100 |
| | | Hyde | < 100 |
| | | Pasquotank | 300 |
| | | Perquimans | < 100 |
| | | Tyrrell | < 100 |
| North Carolina | 900 | | |
| | | | |
| Pennsylvania | | Adams | 600 |
| | | Berks | < 100 |
| | | Chester | 300 |
| | | Columbia | < 100 |
| | | Cumberland | 1,500 |
| | | Dauphin | 2,100 |
| | | Juniata | < 100 |
| | | Lancaster | 2,900 |
| | | Lebanon | 800 |
| | | Northumberland | 300 |
| | | Perry | 300 |
| | | Schuylkill | 300 |
| | | Snyder | < 100 |
| | | York | 3,300 |

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 8% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

**Hurricane Md#2 Roofing Model**

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**Sources:**
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LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Md#2 Temporary Roofing Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Pennsylvania | 12,400 | | |
| (continued) | | | |
| Virginia | | Accomack | 1,300 |
| | | Alexandria | 1,400 |
| | | Arlington | 1,900 |
| | | Caroline | < 100 |
| | | Charles City | < 100 |
| | | Chesapeake | 1,600 |
| | | Essex | < 100 |
| | | Fairfax | 2,700 |
| | | Falls Church | < 100 |
| | | Gloucester | 300 |
| | | Hampton City | 1,100 |
| | | Isle Of Wight | 200 |
| | | James City | 500 |
| | | King And Queen | < 100 |
| | | King George | < 100 |
| | | King William | < 100 |
| | | Lancaster | 300 |
| | | Mathews | 200 |
| | | Middlesex | 200 |
| | | New Kent | < 100 |
| | | Newport News | 1,400 |
| | | Norfolk City | 2,100 |
| | | Northampton | 300 |
| | | Northumberland | 300 |
| | | Poquoson City | < 100 |
| | | Portsmouth | 800 |
| | | Richmond | < 100 |
| | | Suffolk City | 500 |
| | | Surry | < 100 |

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Virginia | | Virginia Beach | 7,700 |
| (continued) | | Westmoreland | 200 |
| | | Williamsburg | < 100 |
| | | York | 500 |
| Virginia | 25,500 | | |

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 8% in CAT 3.

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**Hurricane Md#2 Roofing Model**

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LRL-DEBRIS